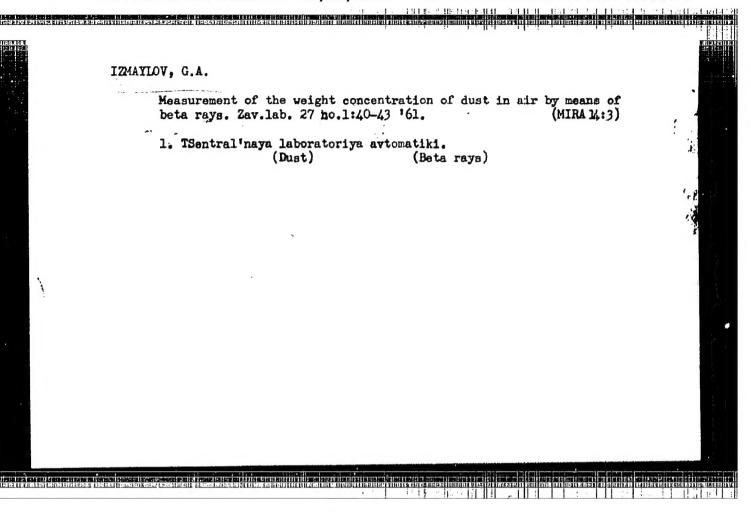


IZMAYLOV, G.A. (Mordovskaya ASSR, Saransk, 1-y Sovetskiy per., d.15)

Combination of perforation and acute bleeding from a gastric ulcer. Klin.khir. no.9180-81 S '62. (MIRA 1615)

1. 1-ye khirurgicheskoye otdeleniye Respublikanskoy bol'nitsy Mordovskoy ASSR. (STOMACH-ULCERS)

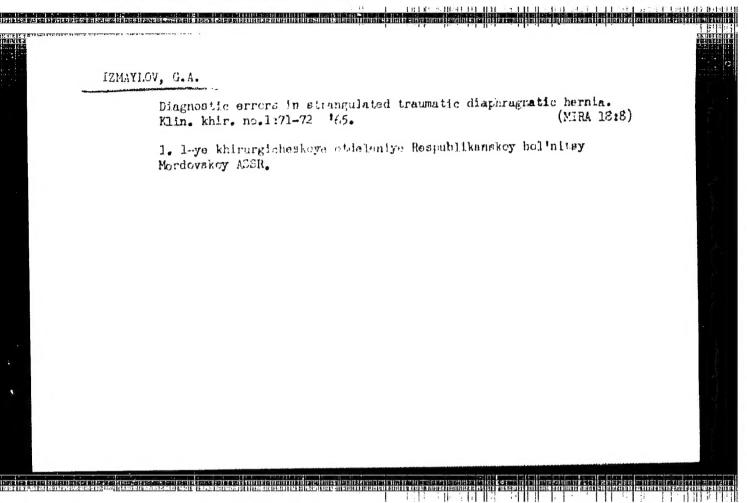


IZMAYLOV, G.A. (MASSR, Saransk, Forvyy Sovetskiy per., d.15)

Diagnosis of supperating cysts of the urachus. Nov. khir. arkh. no.9:80 S '61. (MIRA 14:10)

1. 1-ye khirurgicheskoye otdeleniya (zav. - zaslumhennyy vrach Mordovskoy ASSR M.P.Yurtaykina) Respublikanskoy bol'nitsy Mordovskoy ASSR.

(URINARY ORGANS-DISEASES)

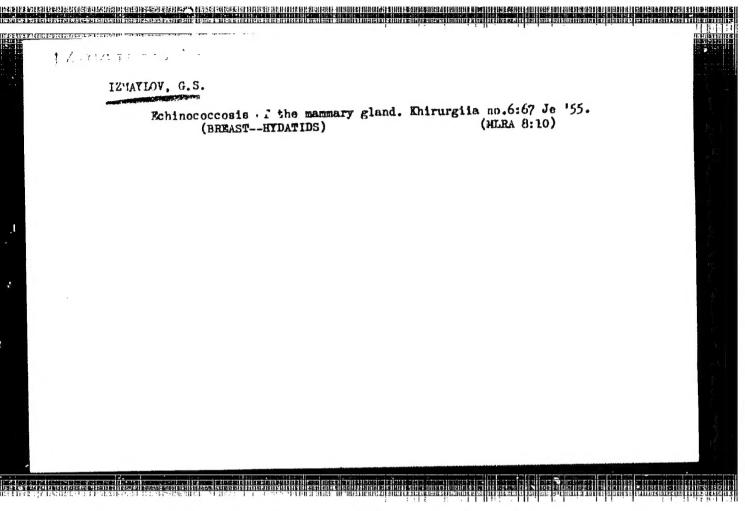


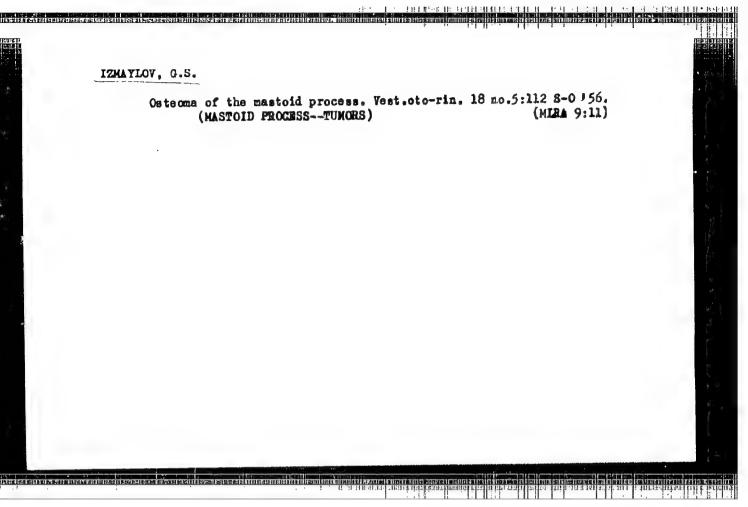
KLYUYEV, I.I.; SHAVENZOVA, Ye.Z.; IZMAYLOV, G.A. (Mordovskaya ASSR, Saransk, 1-y Sovetskiy per., d.15)

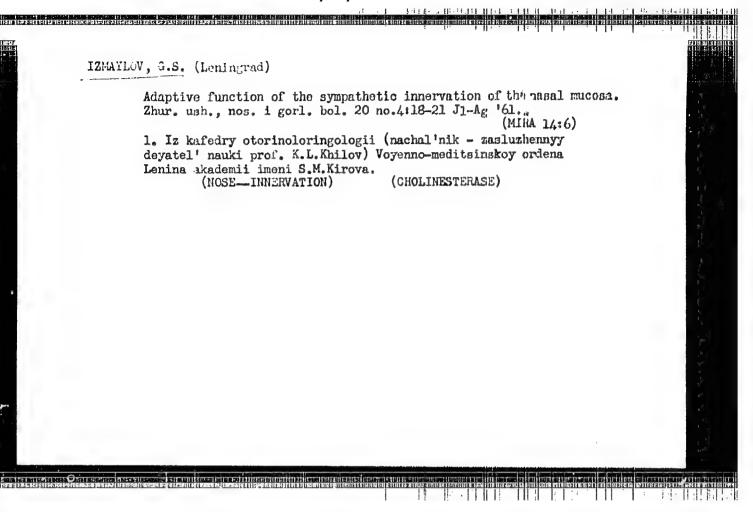
Radical surgical treatment of elephantiasis of the lower extremities. Ortop., travm. i protez. 24 no.3:60-62 Mr '63. (MIRA 17:2)

1. Iz 1-go khirurgicheskogo otdeleniya Respublikanskoy bol¹nitsy Mordovskoy ASSR.

Figure 1 and American and Ameri







14-57-7-15092

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 7,

p 146 (USSR)

AUTHOR:

Izmaylov, I. V.

TITLE:

Faunal Association in the Artificial Forests of the Khoper Preserve (Nekotoryye zakonomernosti formirovaniya fauny iskusstvennykh lesnykh nasazhdeniy v

rayone Khoperskogo zapovednika)

PERIODICAL:

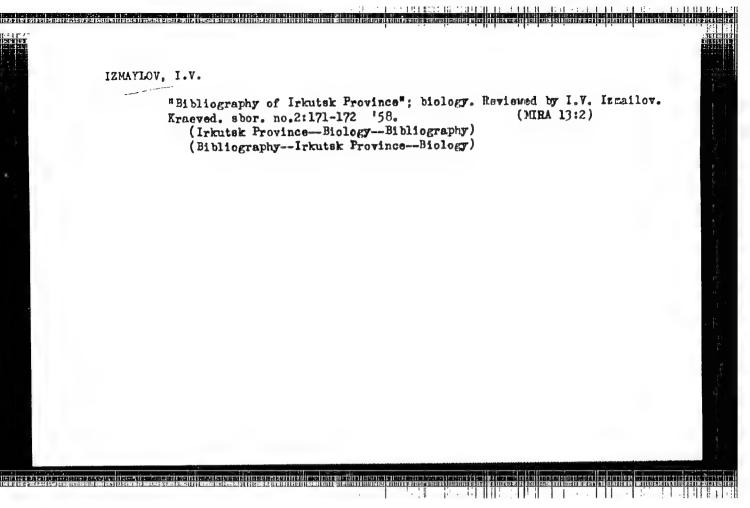
Tr. Khopersk. gos. zapovednika, 1956, Nr 2, pp 123-

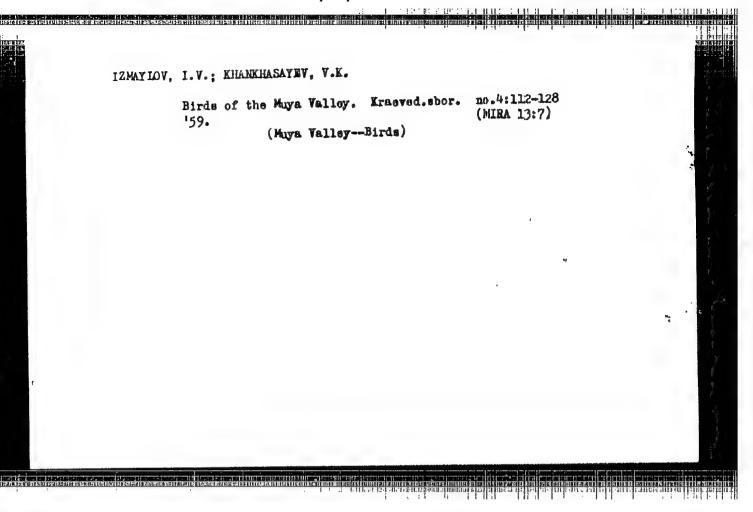
130

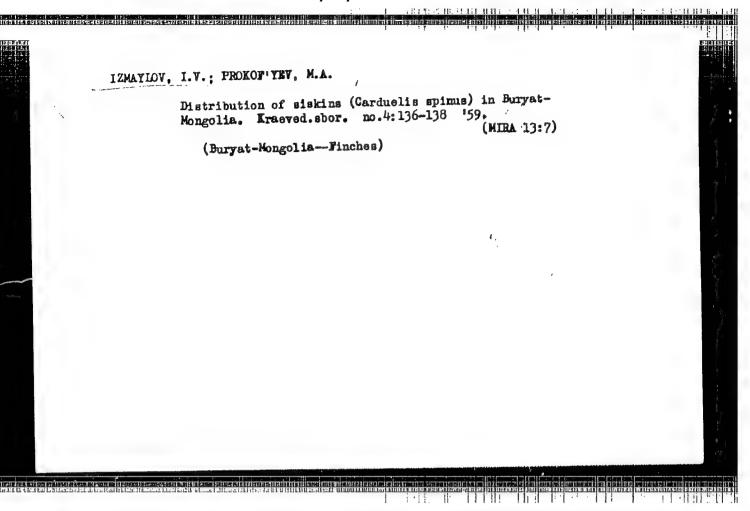
ABSTRACT:

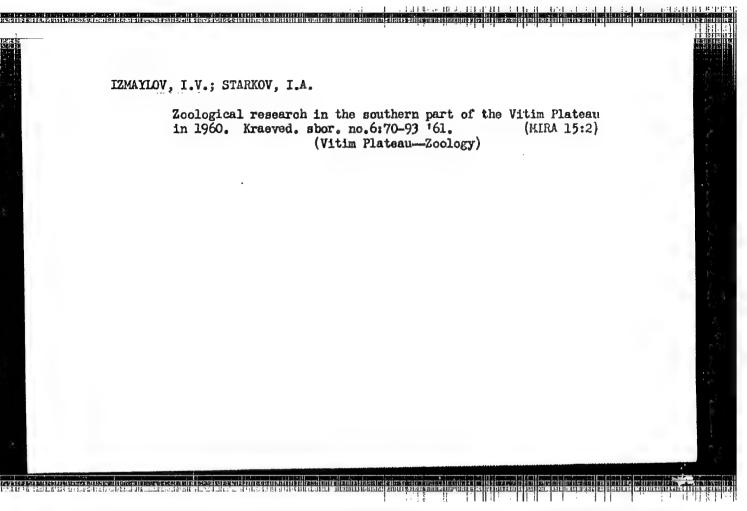
Few species of birds inhabit pine stands one to three years old, and these species are of the open-space type. When the stands grow older, "forest" birds begin to settle in them, while their rodent population decreases. After the nesting season the bird population becomes more varied because of the immigration of species from natural forests. The author

Card 1/2







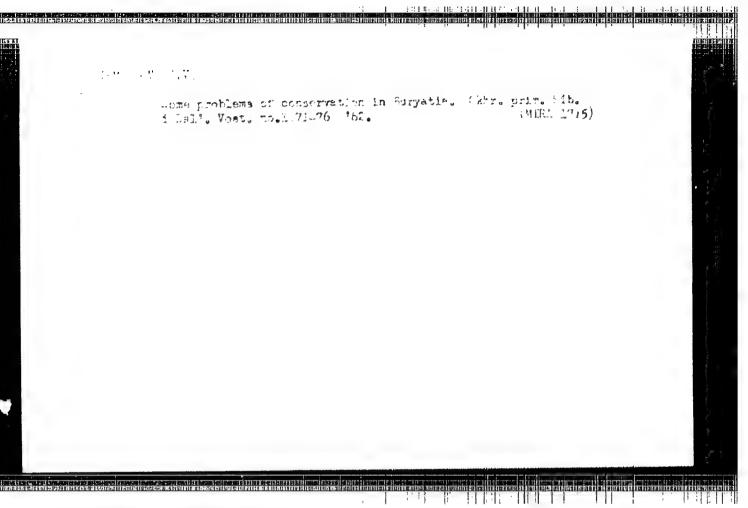


BUYANTYYEV, B.R., red.; IZMATIOV, I.V., red.; NACORNOVA, A.Ya., red.;
RADNAYEV, A.N., tekhn. red.

[Problems in the protection of nature in the Buryat A.S.S.R.]
Voprosy okhrany prirody Buriatii; materialy. Ulan-Ude, Buriat-akoe knizhnoe izd-vo, 1962. 125 p.

1. Buryatakaya konferentsiya po okhrane prirody, lat, Ulan-Ude, 1961. 2. Buryatakiy kompleksnyy nauchno-isaledovatel'skiy institut Severo-Osetinskoy Akademii nauk SSR (for Buyantyyev).
3. Buryatakiy pedagogicheskiy institut im. D.Banzarova (for Izmaylov).

(Buryat-Mongolia-Natural resources)



"APPROVED FOR RELEASE: 08/10/2001 CIA

CIA-RDP86-00513R000619410005-5

S/2744/64/000/007/0101/0108

ACCESSION NR: AT4043276

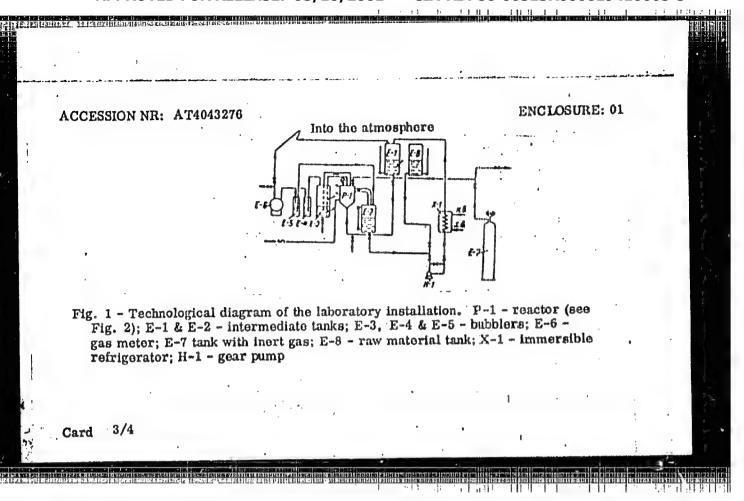
AUTHOR: Lapitskaya, O. I., Sady*kov, R. Kh., Izmaylov, I. Ye.

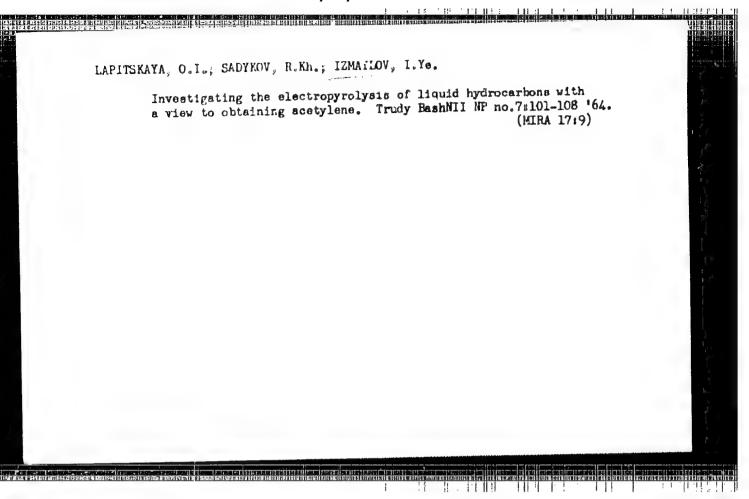
TITLE: Investigation of the electropyrolysis of liquid hydrocarbons for the production of acetylene

SOURCE: Ufa. Bashkirskiy nauchno-issledovatol'skiy institut po pererabotke nefti. Trudy*, no. 7, 1964. Sernisty*ye nefti i produkty* ikh pererabotke crude oil and products of refining), 101-108

TOPIC TAGS: hydrocarbon, acetylene, electropyrolysis, Diesel fuel, acetylene production, hydrocarbon pyrolysis

ABSTRACT: A laboratory apparatus for producing acetylene by electropyrolysis of liquid hydrocarbons is described (see Fig. 1 in the Enclosure) and the most successful construction of the reactor is schematically illustrated (see Fig. 2). The influence of the distance between the station-mensions and weight of the movable contacts as well as of the distance between the stationary electrodes is investigated. The yield in the reactor increased and the consumption of electricity per 1 m³ gas decreased with increasing dimensions of the movable contacts. With increasing weight of the movable contacts, the electric consumption per 1 m³ acetylene increased and the gas yield increased proportionally to the load; the composition of the





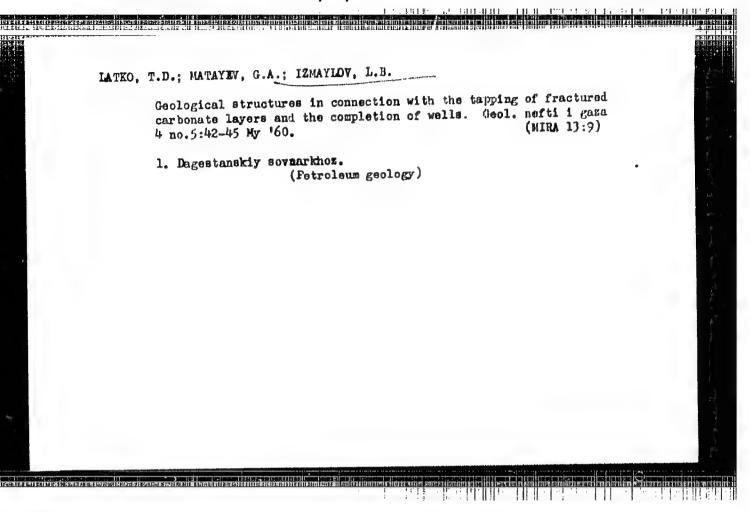
SOV/117-59-3-18/37 25(1,7) Izmaylov, K.F., Engineer AUTHOE: Machining Curving Surfaces Without a Pracer (Chra-TITLE: botka krivolineynykh poverkhnostey bez kopira) Mashinostroitel', 1959, Nr 3, pp 28 - 29 (USSR) PERIODICAL: The Nauchno-issledovatel'skir institut poligrafi-cheskogo mashinostroyeniya, NIIFoligrafiash, ABSTRACT: (Scientific Research Institute of Polygraphic Lachine Construction) needed a high-predision cylindrical cam (template) with a varying-lead spiral groove (Figure 1) beginning with 11.52 mm lead and ending with 162 mm over a length of 596 mm and making 9-1/16 turns. The complex problem was met by the formula s = 144 x. where s is the axial feed of the cutting tool, and Card 1/3

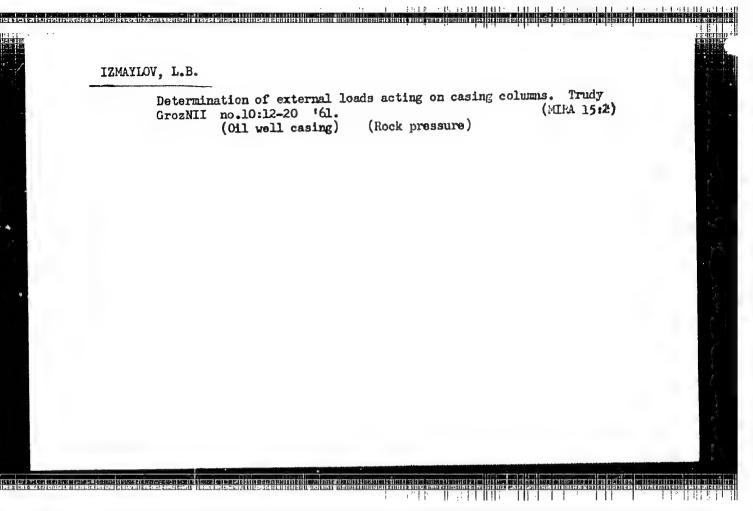
SOV/117-59-3-18/37

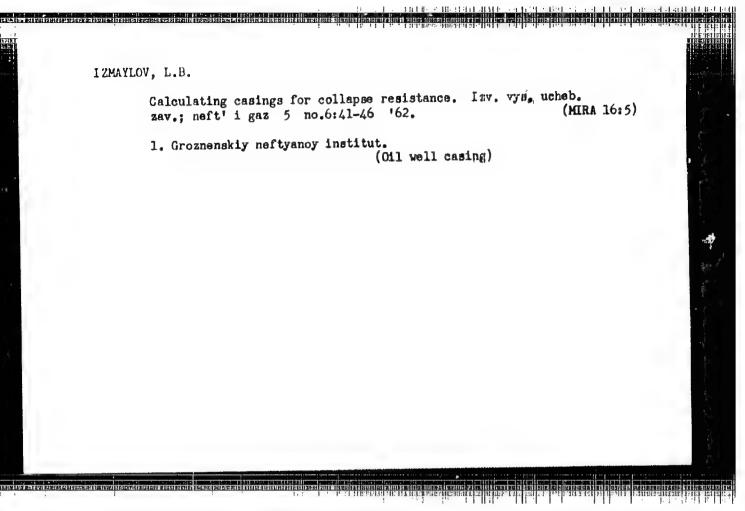
Machining Curving Surfaces Without a Tracer

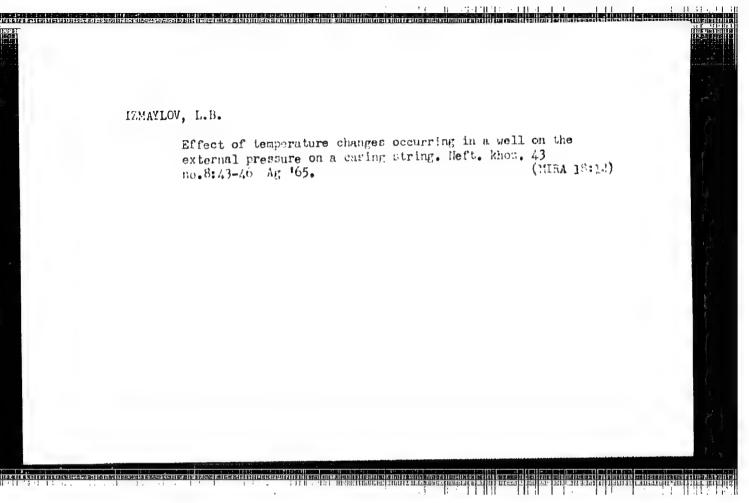
the same method as the cutting, with the end mill replaced by an "arbor" with a "floating" bushing. Machining of the groove by one operator took 24 hours for the rough milling, 34 hours for the finish milling, and 12 hours for the checking. The described cutting method is recommended as more commercial than the conventional method with the use of tracers in the case of single-piece and small-range production, and permits the cutting of practically any curved grooves with available machine tools, and without complex auxiliary fixtures and marking. There are two diagrams and 1 photograph.

Card 3/3









IATKO, T.D.; IMMAYLOV, L.G.; MATAYEV, G.A.

Causes of casing breakdown and collapse. Neftianik 6 no.3:12-13
Mr '61.

1. Sotrudniki TSentral'noy nauchno-issledovatel'skoy laboratorii.

(Oll well casing)

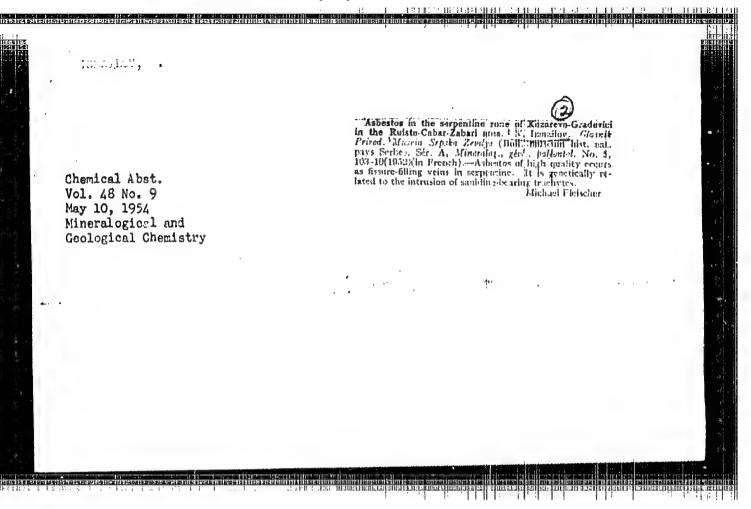
IZMAYLOV, M.

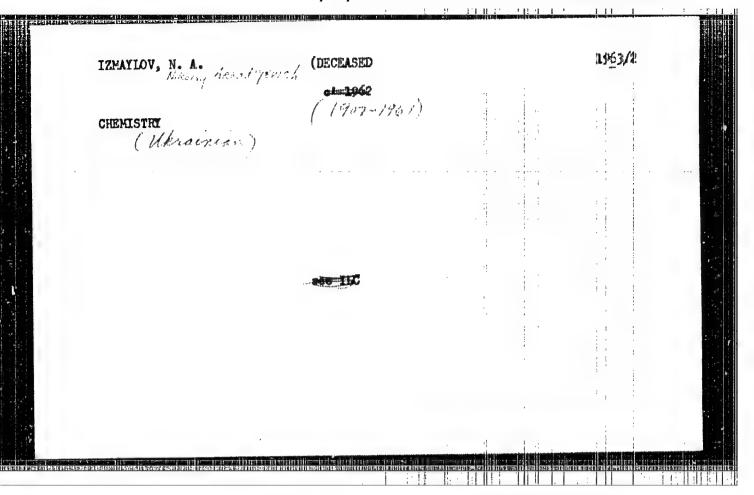
Give more attention to the problems of wage control. Den. i kred. 21 no.11:50-55 N '63. (MIRA 17:2)

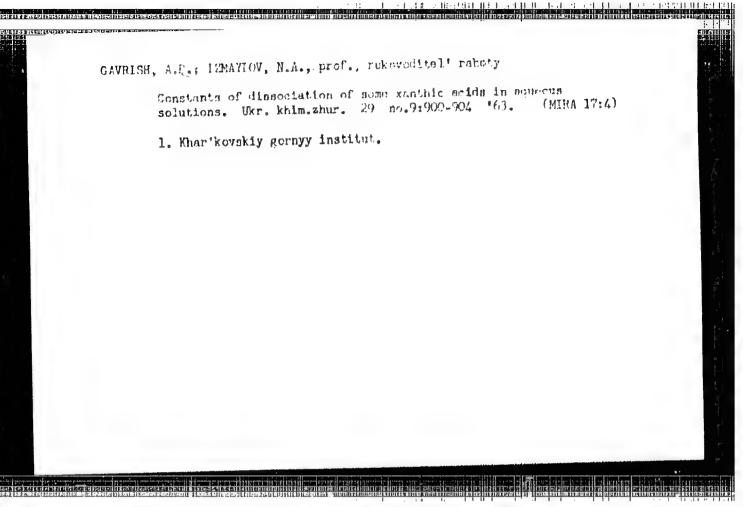
1. Nachal'nik planovo-ekonomicheskogo otdela Alma-Atinskoy oblastnoy kontory Gosbanka.

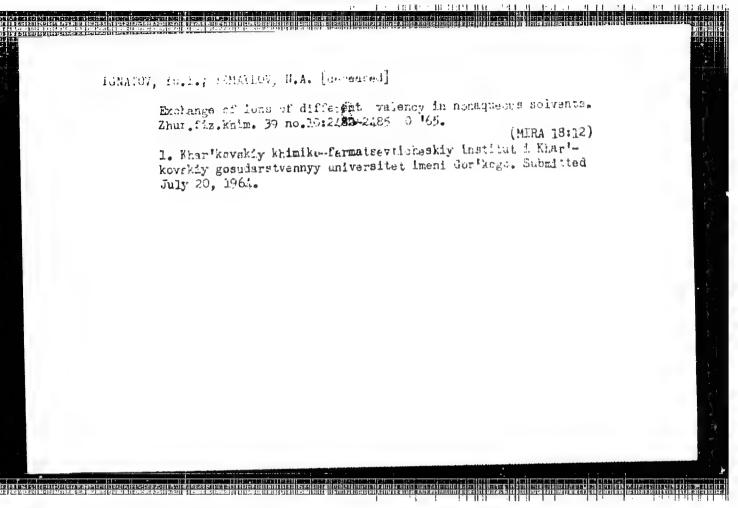
IZMAYIOV, M.Z. [decoased]; SHOSTENKO, Yu.V.; CHHIL; V.D.

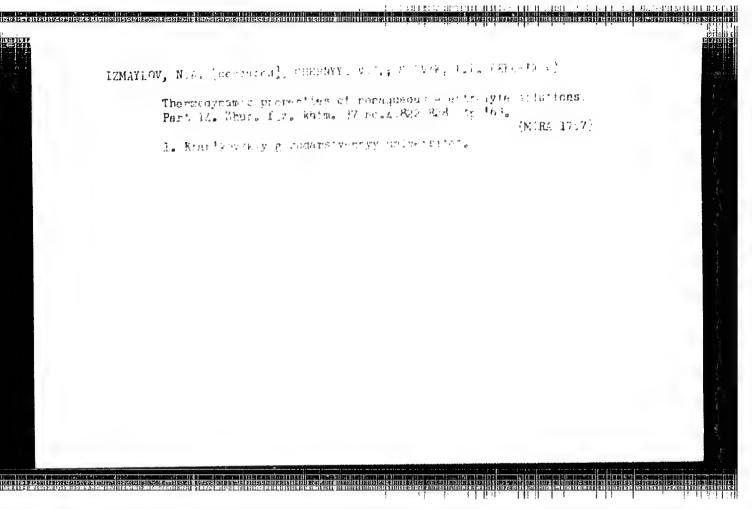
Use of polymeric materials in partition chromatography with inverted phases. Dop. AN URSR no.2:201-205 '62. (MIRA 15:2) inverted phases. Dop. AN URSR no.2:201-205 '62. (MIRA 15:2) inverted phases. Chlen-korrespondent AN USSR (for Izmaylov). cheskiy institut. 2. Chlen-korrespondent AN USSR (for Izmaylov). (Chromatographic analysis) (Polymers)











TIMOFETEV, V. N.; PALTUSOVA, K. I.; IZMAYLOV, O. A.; SHKLYAR, F. R.

Investigating the aerodynamics of a smoke flue in blast furnace air preheaters. Sbor. nauch. trud. VHIIMT nc.8:360-372 (MIRA 16:1)

(Blast furnaces) (Flues-Aerodynamics)

6 (7) SOV/111-59-10-15/23

AUTHOR: Izmaylov, P.A., Chief, and Pilyus, G.S., Senior Engineer

TITLE: Experience in Automation of Intra-rayon Telephone Commu-

nications

PERIODICAL: Vestnik svyazi, 1959, Nr 10, pp 24-26 (USSR)

ABSTRACT: This article is concerned with automation of intra-rayon telephone communications (VRS) facilities in the Moscow

oblast'. By way of introduction the authors state that in 1956 telephonization of all sovkhozes, Machine-tractor stations, sel'skiye sovety (rural councils) and kolkhoz offices was completed. They then review recent achievements in automation of VRS facilities: 101 VRS automatic telephone stations (ATS) and 51 UPTSs were put in operation by the end of 1958, as a result of which more than 57% of VRS stations were operating around the clock at the beginning of this year; at present VRS communications is fully automatic in 5 rayons: the Bronnitsy Klin, Lotoshire, Ozery and Chekhov rayons; the level of VRS automation is high in the Dmitrov, Yegor week; Maro-Fomine, Podolak,

Card 1/4

Orekhovo-Zuyevo and Stupim rayons. It is planned to

507/111-59-10-15/23

Experience in Automation of Intra-rayon Telephone Communications

replace all manual stations with automatic ones by the end of 1961. The economic advantages of this automation work are also cited. The balance of the article is devoted to the organization of work in automation of VRS facilities, Installation is done on the basis of a yearly plan drawn up by the direktsiya radiotranslyatsionnoy seti (Board of the Radio Broadcasting Relay Network) and approved by the heads of the communications administrations. The processes of planning, projecting, preparation and installation are outlined; standard designs, developed by the "Giprosvyaz'" Institute, in somewhat modified form, are used. Before 1958 equipment assembly work in the VRS ATSs was done by the remontarya-montarhaya kontora (Maintenance and Assembly Office) of the communications administration; in 1958 this work was transferred to the SMUR; at present installation of VRS ATS equipment is done by workers of the SMUR and the rayon communications offices. The authors note the shortage of connecting circuits and the need for large scale output of multiplexing apparatus for steel connecting circuits

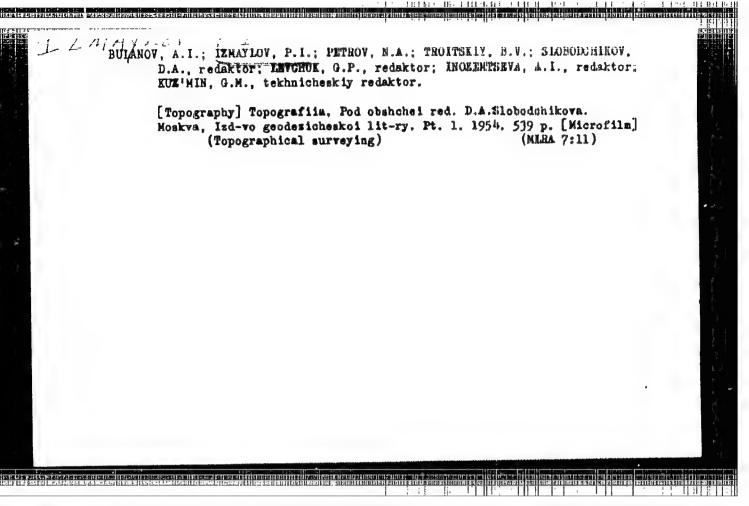
Card 2/4

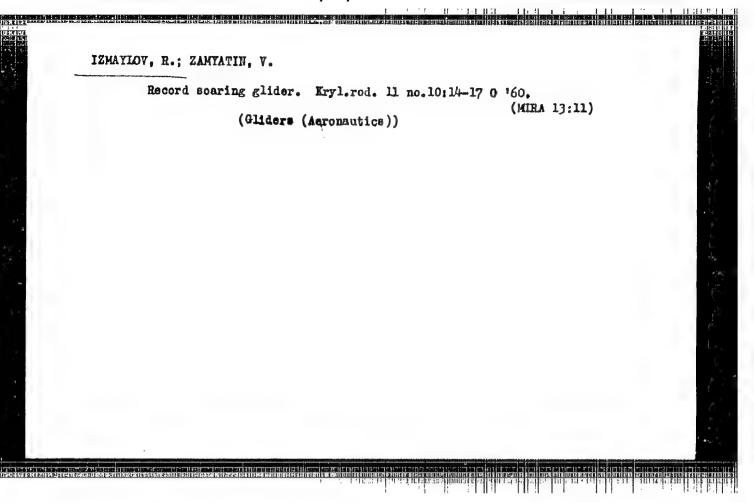
SOV/111-59-10-15/23

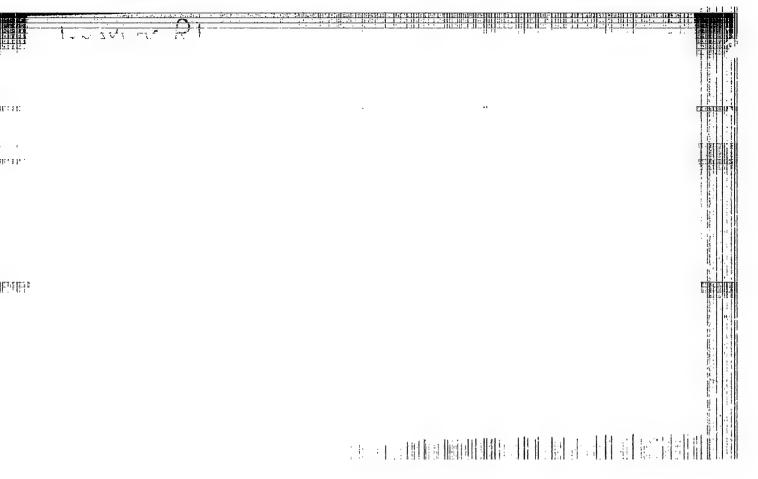
Experience in Automation of Intra-rayon Telephone Communications

and B.A. Shcherbakov, technicians at the Voskresensk and Ruza rayon communications offices respectively. The author mentions courses for preparation and re-training of VRS technician by the communications administration and DRTS; 4 VRS ATS technicians are named: L.V. Golomazov (photo), N.I. Turkin, I.I. Ivanov, V.I. Morozov, of the Podol'sk, Voskresensk, Dmitrov and Yegoryevsk communications offices. Service, maintenance and checking of automatic stations is discussed and outlined. The authors conclude with mention of a number of things which are holding up further and faster development of the VRS system: in particular he notes the need for serial production of block stations with up to 40 numbers capacity necessary for the VRS network; a system for automation of battery charging and stabilization of the line voltage used for this purpose is also lacking. They also mention defective equipment manufactured for VRS ATSs, specifically the rotary switches in the charge-discharge panels supplied with UATS-50/100 equipment.

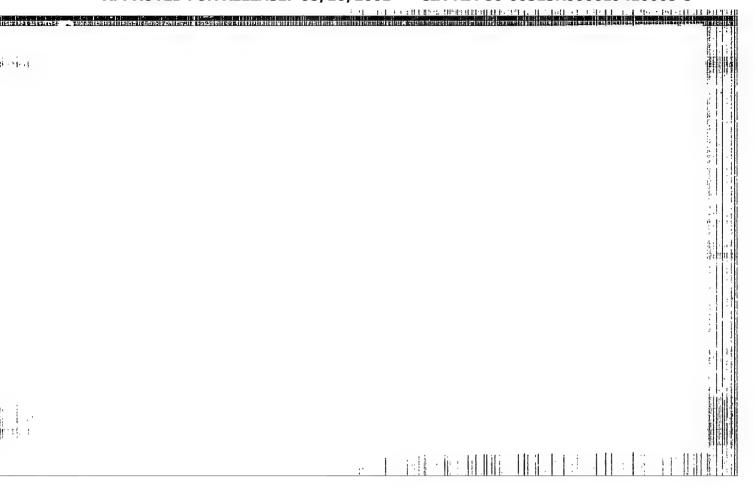
Card 4/4 With UATS-50/100 equipment.
ASSOCIATION: DRTS Moskovskoy oblasti (Moscow Oblast LHTS)



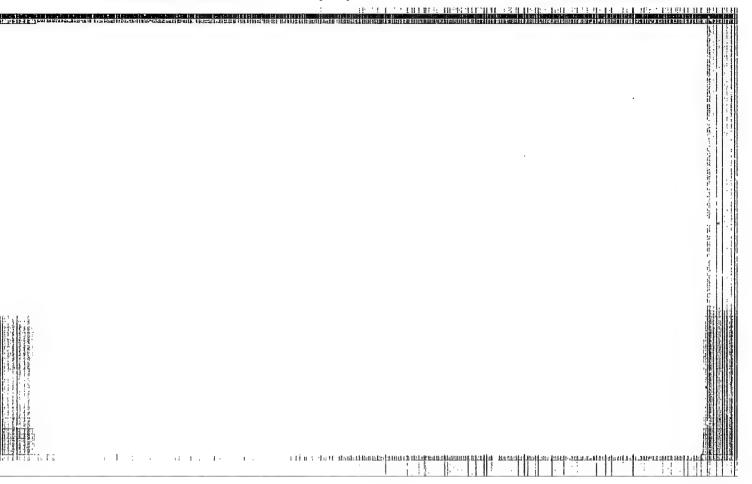


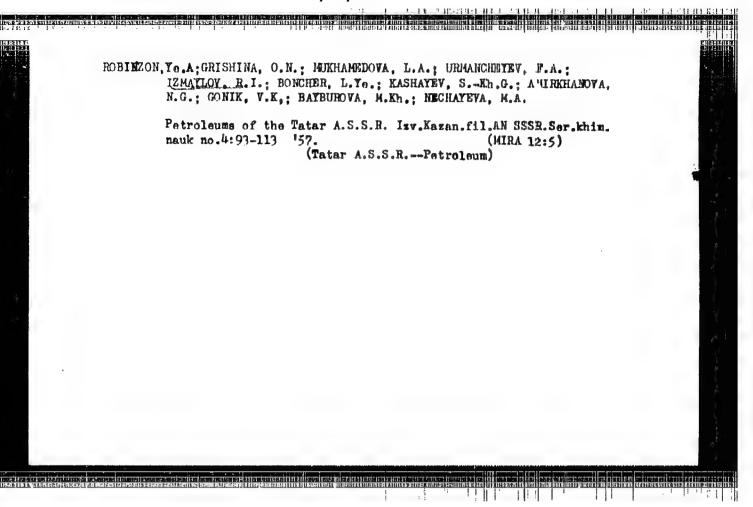






B-0 USSE/Physical Chemistry - Kinetics. Combustion Explosives. Topochemistry, Catalysis : Referat Thur - Khimiya, No 2, 1957, 3867 Abs Jour : Eydus Ya.T., Immaylov R.L. Author : Department of Chemical Ociences, Academy of Sciences USSR Inst. : Caualytic Hydro-Condensation of Carbon Monoxide with Title Olefins. Communication 14. Mutua: Transformation of Butene-1 and Butene-2 Winder Conditions of Catalytic Hydro-Condensation of Carbon Monoride with Olefins, Connunication 15. Hydro-Contensation of Carbon Monaxide with Butene-2. : Izv. AN SSSR, Ctd. kh.m. n., 1956, No b., 467-474, 475-481 Orig Pub : 14. Investigation of the Laction of isomerization of Abstract butene-1 (I) to buten -2 (11) and of II to I, at 1960 and space velocity 66-100 hour 4, over catalysts of the renction of hydro-condensation of CO with olefins. It is shown that in the abscree of H_{0} the reactions $I \rightarrow II$ and - 154 -Card 1/3





Reaction of Isomerization in a Series of Butenes

Table 1 gives data on content in % of butene-2 (cis- and trans-form) in an equilibrium mixture of n-butenes (to from 200-5000). Table 2 presents data on the content of n-butenes in an equilibrium mixture (to from 27-7270), wherein a comparison is made of the composition of equilibrium mixtures of n-butenes computed by A. V. Frost (8) with corresponding data obtained experimentally by other authors (H. H. Voge, N. C. May [1,]). Table 3 gives data on the free energies and equilibrium constants of the isomerization of butenes (in an ideal gaseous state) (to from 25 to 12270 C.). Table 4 presents values of equilibrium concentrations of butenes (in an ideal gaseous state, to from 25-12270 C. for butene-1, butene-2, butene-2 [trans], and isobutene). Table 5: content of butene-1 and butene-2 in a mixture in dependence on volumetric velocity (velocity space).

The outstanding personalities cited in text are: F. E. Frey and W. F. Huppke, for their study on the dehydrogenization of n-butane at to of 350-5000 under conditions of the absence of isobutene in the

Card 3/4

IZMAYLOV, R.I.; OKRUZHNOV, A.M.; FEDOROV, G.I.; VIROFYANTS, R.A.

Thermocatalytic conversions of hydrocarbons of a petroleum C6-fraction on Al203-Pt catalyst. Neftekhimila 1 no.44505-508 Jl-Ag '61.

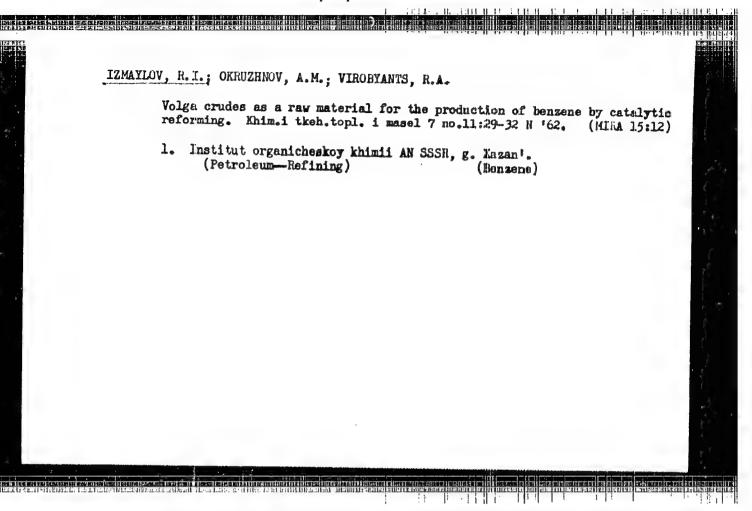
1. Institut organicheskoy khimii AN SSSR, Nasan'.

LE, B.; IZMAYLOV, R.I.; URMANCHEYEV, F.A.; LIPATOVA, I.P.; KHASHAYEV, S.-KH.G.; LAMANOVA, I.A.; BUKHARAYEVA, R.G.

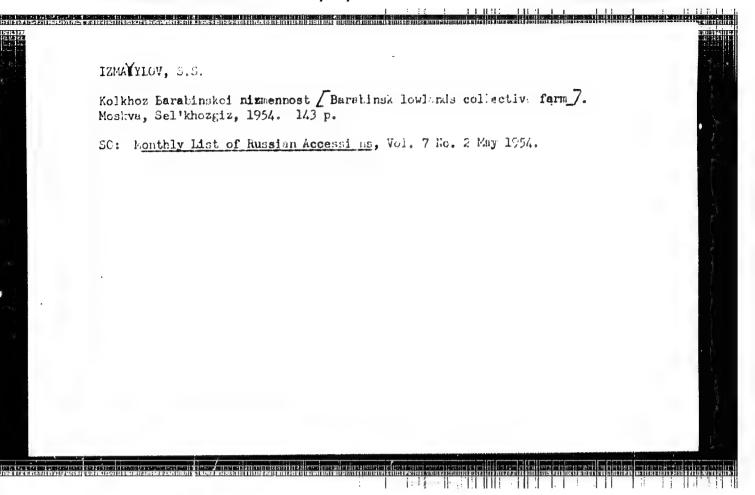
Individual hydrocarbon composition of the petroleums of Tataria. Rejort No.5: Ligroine from the jetroleum of the Bavly Oli field. Izv. AN SSSR. Otd.khim.muk no.7:1310-1315 Jl '61. (MIRA 14:7)

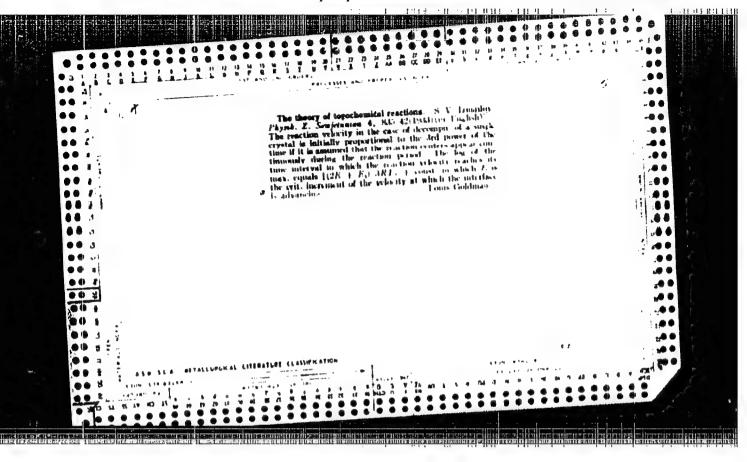
1. Khimicheskiy institut im. A.Ye. Arbuzova Kuzanskogo filiala AN SSSR.

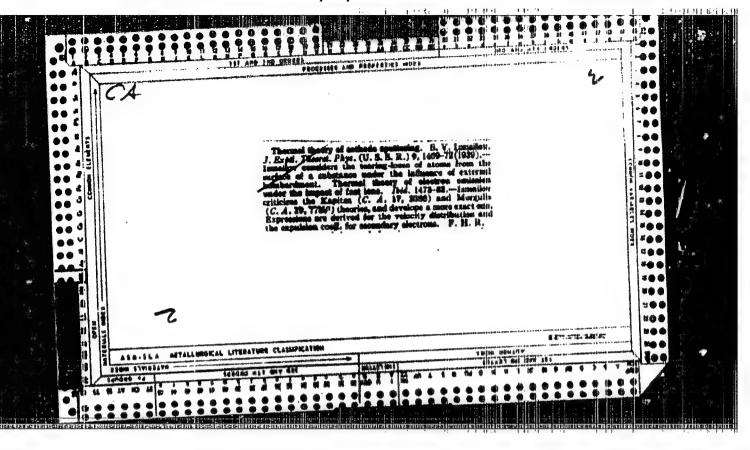
(Bavly region--Petroleum) (Ligroine)

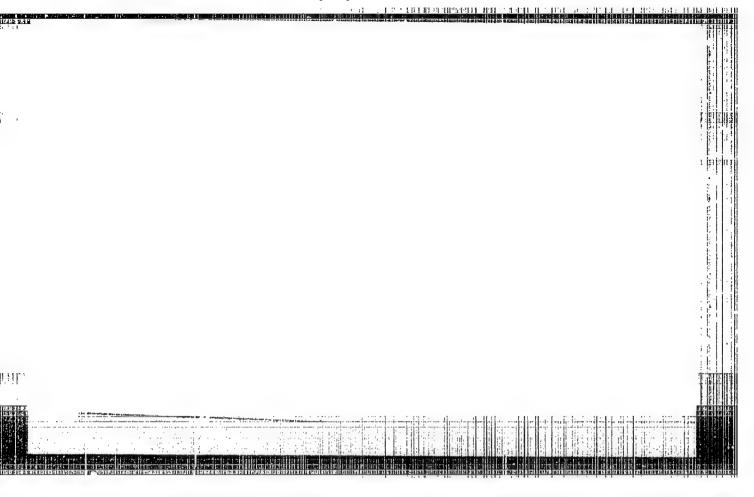






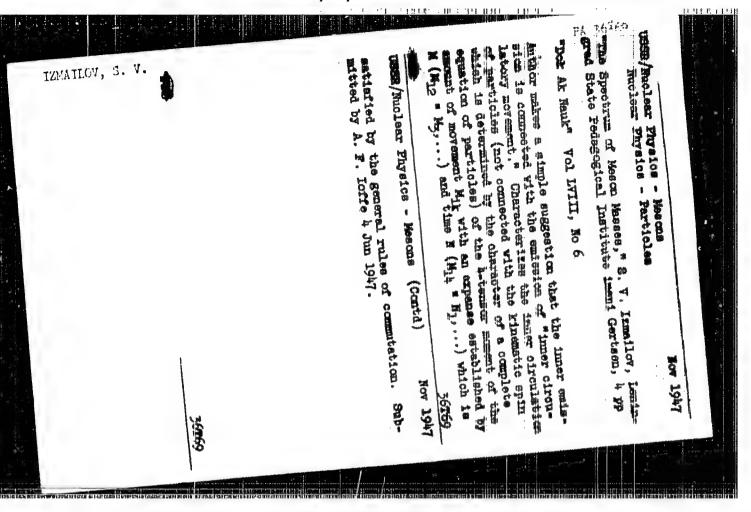


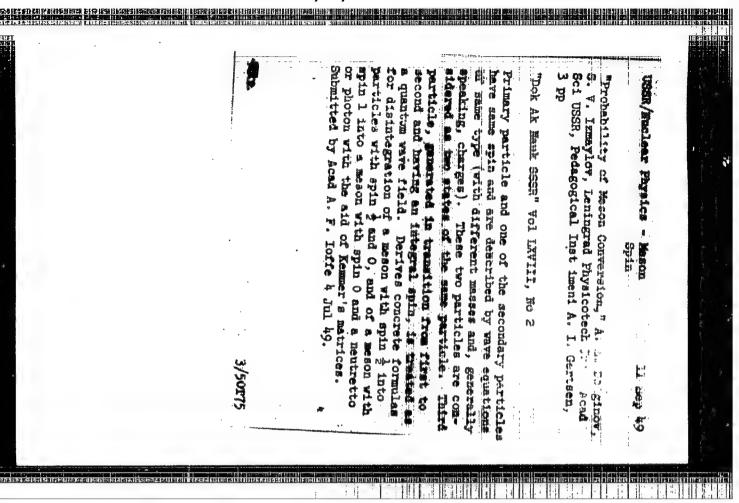




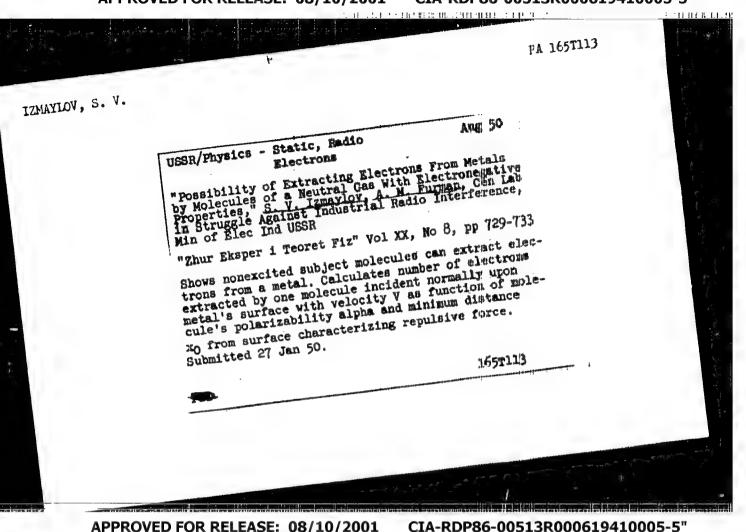
"APPROVED FOR RELEASE: 08/10/2001

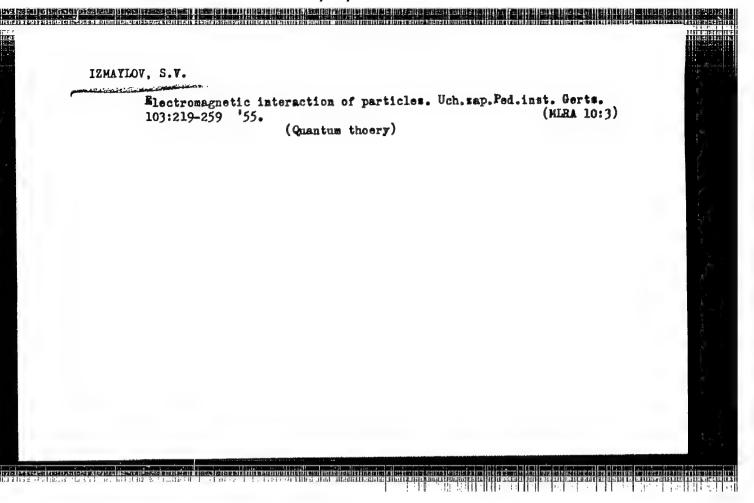
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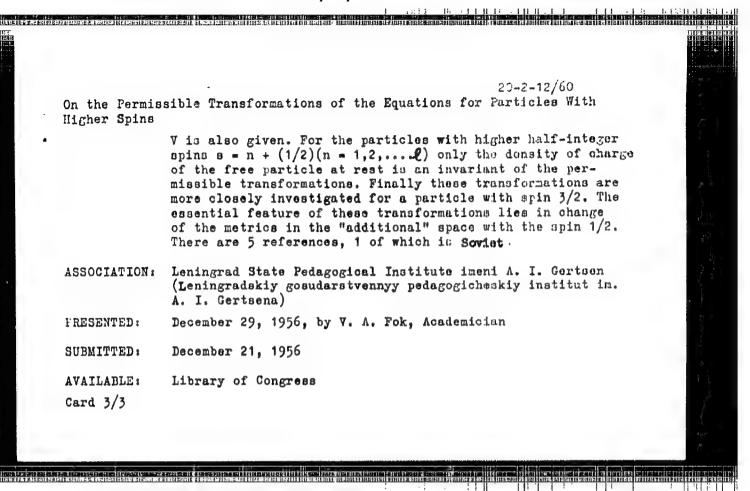
Abs Jour: Ref Zhur - Fizika, No 3, 1957, No 5521

Author: Izmaylov, S.V.
Title: Concerning the Frofessional-Fedagogical Trands in the Course on Theoretical Physics in Pedagogical Institutes.

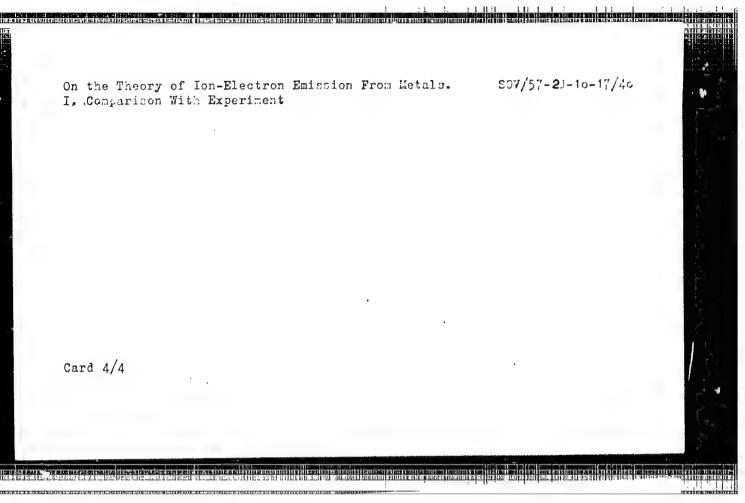
Orig Fub: Uch. zap. Loningr. gos. pod. in-t, 1956, 124, 111-130

Abstract: No abstract

20-2-12/60 Fradkin, E. Ye., Izmaylov, S. V. AUTHORS: On the Permissible Transformations of the Equations for TITLE: Particles With Higher Spins (O dopustimykh predbrazovaniyakh uravneniy dlya chastits s vysshimi spinami) Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 2, pp.277-280 PERIODICAL: (USSR) The particles with any spins are described by equations of the ABSTRACT: type $(L^{i}(\partial/\partial x_{i}) + ix) \Psi(x_{0}, x_{1}, x_{2}, x_{3}) = 0$. In this connec- $\psi(x_0, x_1, x_2, x_3) = \psi(ct, x, y, z)$ signifies the wave function which is transformed according to a finitely-dimensional representation of the complete Lorentz group; $L^{i}(i=0,1,2,3)$ - quadratic matrices, X - a real constant different from zero. The invariance of the above-mentioned equation with regard to the just mentioned transformation is guaranteed by the following additional conditions for the matrices $\mathbf{L}^{\mathbf{i}}$: Card 1/3



On the Theory of Ion-Electron Emission From Metals. SOV/57-28-10-17/40 I. Comparison With Experiment for the linear section. It was clear in all quarters that a dependence of the coefficient y, of kinetic ionelectron emission upon the work function & must exist. No success was, however, achieved in proving such a dependence experimentally. It is demonstrated in this paper - formula (1,05) - that in the linear section the secondary emission is not only a function of the work function, but also of the chemical potential µ of the electrons in the metal. The chemical potential remains constant, if the work function varies because of a modification of the absorption layer and thus the variation of γ_k is only determined by the variation of the function $F_0(x)$. $x^2 = 1 + \frac{1}{\mu}$. $F_0(x)$ drops rapidly with the increase of . The netals can be classified as follows with respect to the reduction of γ_k : Li, Na, K, Ni, Mo, Al, Ta, W, Cu, Pt, and thus with respect to the increase of the work function: K, Li, Na, Ta, Mo, Al, W, Ni, Cu, Pt. These two series on the whole do not agree with Card 2/4 each other. This offers an explanation for the fact



THE TREASTRIFT OF THE ASSESSMENT OF THE SERVE OF THE ASSESSMENT OF 59 S/044/60/000/007/048/058 C111/C222 On the question of the foundation of the special theory of AUTHOR: TITLE: PERIODICAL: Referativnyy zhurnal. Matematika, no.7, 1960, 213. Abstract no.8252. Uch.zap.Leningr.gos.ped.in-ta, im.A.I. Gertsena, 1958, 141, 19-26 TEXT: In the paper the author tries to give a "dynamic" foundation of the special theory of relativity on the base of the general laws of the point dynamics, the law of the proportionality of mass and energy, the principle of relativity, and the principle of the homogeneity of [Abstractor's note: The above text is a full translation of the original Soviet abstract.] Card 1/1

SOV /137-58-12-25039

Translation from: Referativnyy zhurnal Metallurgiya, 1958, Nr 12, p 145 (USSR)

Izmaylov, S. V. AUTHOR:

Ion-electron Kinetic Emission of Metals (Ionno-elektronnaya kinetiches-TITLE:

kaya emissiya iz metallov)

PERIODICAL: Uch. zap. Leningr. gos. ped. in-ta im. A. I. Gertsena, 1958, Vol.

166, pp 309-346

ABSTRACT: The author examines the secondary kinetic ion-electronic emission, i.e., emission of electrons (E) of a metal when its surface is struck by ions

possessing great kinetic energy. A short review of the results of experimental investigation of this emission and a review of theories advanced earlier are adduced. A detailed examination is made of the mechanism set forth by the author which consists in the excitation of E conductivity by the electromagnetic inhibiting field of the ions falling on the metal. The calculation is performed with the aid of a model of free E for the energies of ϵ_{i} ions, which are appreciably greater than the energy of E removal, ϵ_e , it being assumed that the ions fall on the surface of the

metal perpendicularly. It is shown that the emission coefficient \ \gamma where M: is the in a broad range of energies $r_e \ll r_i \ll r_i M_1/m$,

Card 1/2

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Ion-electron Kinetic Emission of Metals

SOV/137-58-12-25039

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mass of the ion and m_i the mass of the E, is proportional to the energy of the falling ion and inversely proportional to M_1 . When $\|\cdot\|_1\gg \|\cdot\|_0M_1/m_2\|_V$ loses its dependence on $\|\epsilon\|_1$. In qualitative agreement with the experiment it is found that the distribution of the normal components of the impulse of secondary E has a maximum, the position of which is displaced towards greater energies with an increase in the work function Φ . It is shown that the Y-value is greatly dependent on the Φ/μ ratio, where μ is the chemical potential of the E-corresponding to the observed strong variation of Y-during the formation of adsorption layers. Bibliography: 25 references.

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Card 2/2

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66334 sov/181-1-10-9/21 24(3) 24.6510 Immaylov, S. V. The Theory of the Kinetic Ion - Electron Emission From AUTHOR: TITLE Metals. II Fizika tverdogo tela, 1959, Vol 1, Nr 10, pp 1546 - 1556 (USSR) PERIODICAL: The mechanism of the electron emission (ion - electron emission) caused by the impact of a positive ion upon a metal surface depends on the ratio between the work function of the electron leaving the metal and the neutralization ABSTRACT: energy of the ion Wi in different ways according to whether $W_i > 2 \phi$ or $W_i < 2 \phi$. In the former case the mechanism resembles the Auger effect, and in the latter the electron is separated at the expense of the kinetic energy of the ion. At sufficiently high ion energies, this "kinetic" electron emission is independent of Ψ_i/φ and the sign of the ion charge. The present paper deals with the theory of secondary kinetic ion-electron emission. In the introduction, the recard 1/4

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> 66334 80V/181-1-10-9/21

The Theory of the Kinetic Ion - Electron Emission From Metals. II

sults obtained by several experimental investigations dealing with this subject are discussed (Yeremeyev et al, Arifov, Ayukhanov, Starodubtsev, Dunayev, and Flaks). The results of these investigations are given systematically in form of rules. A) Rules concerning the coefficient of secondary kinetic ion-electron emission (y denotes the average number of electrons, the emission of which is induced by one ion). Here, six rules are found to apply, among others that in pure metals f is very small ($f \approx 0.01$ with $E_{ion} \approx 500$ ev), but that it increases quickly in the presence of absorbing layers. Within a large energy interval, f is a linear function of the energy E_i of the primary ion beam both in pure metals and in such containing absorbing layers, is further practically independent of the metal temperature, and it decreases with an increase in the mass of the bombarding ions. B) The rules of secondary ion-ion-emission. Here five characteristic interrelations are enumerated. In the following, the author discusses the results of some theoretical papers dealing with this subject (Kapitsa, Morgulis, Gurtovoy, Frenkel

Card 2/4

66335 507/181-1-10-10/21 24(3)- 24.6510 Izmaylov, S. V. AUTHOR: The Theory of the Secondary Electron Emission From Metals TITLE: Under the Influence of Fast Neutral Atoms. III Fizika tverdogo tela, 1959, Vol 1, Nr 10, pp 1557-1561 (USSR) PERIODICAL: In an earlier paper the author, together with Furman, ABSTRACT: developed a theory of the field induced electron emission from metals by neutral molecules with electronegative properties. In the present paper the theory of the kinetic electron emission from metals induced by neutral atoms is investigated. It has been shown experimentally that the coefficient of kinetic atom-induced electron emission ya (equal to the number of electrons emitted per incident atom of the energy $\mathbf{E}_{\mathbf{a}}$) is of the same order of magnitude as the coefficient of the kinetic ion-induced electron emission (Ref 2). The mechanism of the kinetic aton-induced electron emission is assumed to be similar to that of the kinetic ioninduced emission (Ref 3): The fast atom is partly slowed down in a collision with a surface target atom; first, the electron Card 1/3

The Theory of the Secondary Electron Emission From 66335 Metals Under the Influence of Fast Neutral Atoms. III SOY/181-1-10-10/21

 $P_{a}(k) = \frac{8}{(2\pi)^{4}} \frac{z_{eff}^{2}e^{4}}{\hbar^{2}} (1+b)^{2} v^{2} 2 \int_{(k_{o})} \frac{q_{z}^{2}(1-\cos(\omega t))}{\omega^{4}q^{4}} (dk_{o}). \text{ In}$ the following the two limits $\tau \gg t/\Phi$ and $\tau \ll t/\Phi$ are investigated and formulas are given for γ_a and $P_a(k)$. In both cases γ_a is proportional to v^2 , i.e. it is proportional to the kinetic energy of the incident atom. Finally, the author gives an evaluation of τ . He obtain: $\tau N2 \sqrt{\frac{A_1 \beta_0}{z^2}}$. 10^{-15} sec; (β_0 is of the order of unity). There

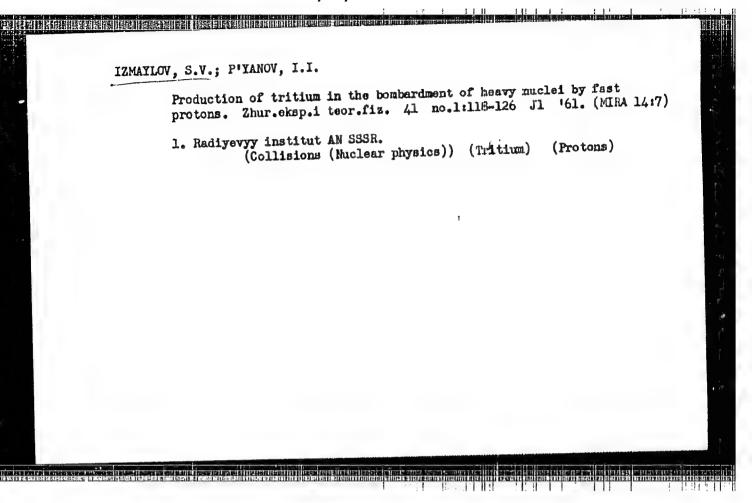
are 3 Soviet references. ASSOCIATION:

Gosudarstvennyy pedagogicheskiy institut im. A. I. Gertsena, Leningrad (State Pedagogical Institute imeni A. I. Gertsen, Le-

SUBMITTED: September 26, 1957

Card 3/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619410005-5"



IZMAYLOV, Sergey Valentinovich; SVITKOV, L.P., red.; KOZLOVSKAYA,

M.D., tekhn. red.

[A course in electrodynamics for physics and mathematics
faculties of pedagogical institutes Kurs elektrodinamiki dlia
fiziko-matematicheskikh fakul'tetov pedagogickeskikh institutov. Moskva, Uchpedgiz, 1962. 439 p. (MIRA 15:10)
(Electrodynamics)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619410005-5

J/10:/02/004/009/029/045
Theory of December Lectron childion F104/B186

to the amount of energies, the the prince bear, in the material per unit of path, and

$$k J(z) G(\delta_p, z), G(\delta_p, z) = -\frac{d\delta}{dz}.$$
 (3),

where k is the factor of proportionality that depends on the type of emitter. (4) The secondary electrons have a relatively low energy and are absorbed according to the law $J_{\rm g}(1) = J_{\rm g} \exp(-\beta I)$, where I is the distance

from the point of ascondary electron production. The total flux of secondary electrons is obtained as $J_s = J_1 = (J_0 + J_1)J_p$, where

$$dJ_{eo} = kJ_{\rho}G(z) dz e^{i\theta} \int_{0}^{z} \frac{1}{2} e^{-\frac{\beta z}{\cos^2 \gamma}} f(-\cos \gamma) \sin \gamma d\gamma;$$
 (37)

is the number of slow secondaries produced by the primary beam, and Card 2/5

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619410005-5

Theory of secondary electron emission

5/151/62/004/009/029/045 B104/B186

is that of the secondaries produced by reflection of the primary beam. It is shown that f began in sace tilly on a and r. η is obtained as

$$\eta = f(\mathcal{E}_p) \left\{ 1 - e^{\tau_0 [(U + W_0)^{q-r} - (\mathcal{E}_p + W_0)^{q-r}]} \right\}. \tag{24}$$

 $f(\mathcal{E}_{p}) := \left\{1 - \frac{1}{\frac{s-r}{2}} \left[1 + \left(\frac{U+W_{a}}{\delta_{p}+W_{a}}\right)^{s}\right]^{\frac{s-r}{2}} \left[1 - \left(\frac{U+W_{a}}{\delta_{p}+W_{a}}\right)^{s-r}\right]^{-1}\right\}$ (25).

Here $\omega(v-w_a)$ is the reflection factor, and $z_m(v+w_a)$ is the penetration depth of primary electrons with the energy $\mathcal{E}_p=v$. There are ℓ figures.

ASSOCIATION: Leminoradskiy gosudarstvennyy pedagogicheskiy institut i.a. A. I. Gertsena

(Leningrad State Pedagogical Institute imeni A. I. Gertsen)

Card 4,5

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AUTHOR:

Izmaylov, S.V.

TITLE:

A contribution to the theory of the sensitivity of ionographic emulsions. I. The case of a single digestion nucleus on the grain

Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, v. 7, no. 6, 1962, 433-443

PERIODICAL:

The author expounds a theory of the sensitivity of ionographic

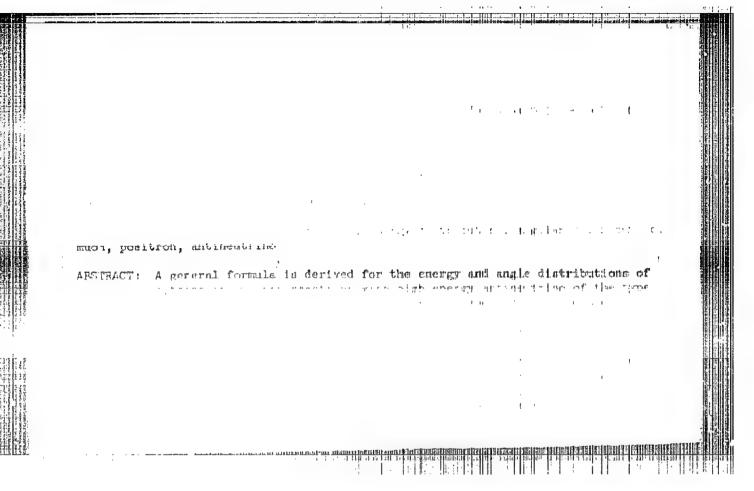
TEXT: emulsions, based on the probability of distribution of digestion nuclei in each individual grain of the emulsion. Formulae are derived for the mean grain sensitivity for the cases of relatively high and relatively low energy losses by the ionizing particles. The sensitizing action of triethanolamine is ascribed to the fact that it increases the mean number of Ag atoms.in the digestion nucleus. Experimental values agreed well with those obtained with the aid of the theory. There are 5 tables.

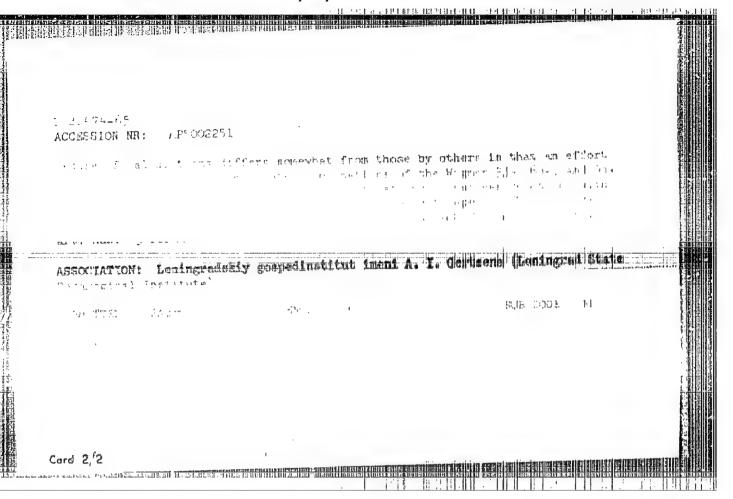
ASSOCIATION: Leningradskiy gosudarstvennyy pedagogicheskiy institut im. A.I. Gertsena (Leningrad State Pedagogical Institute im.A.I.Gertsen)

SUBMITTED:

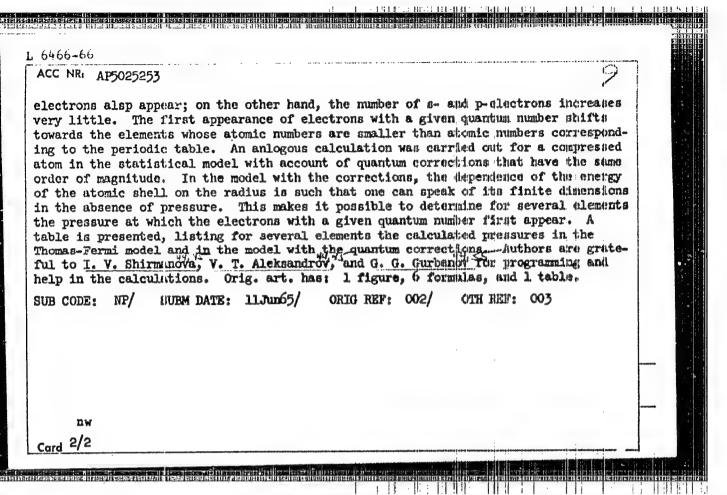
July 11, 1961

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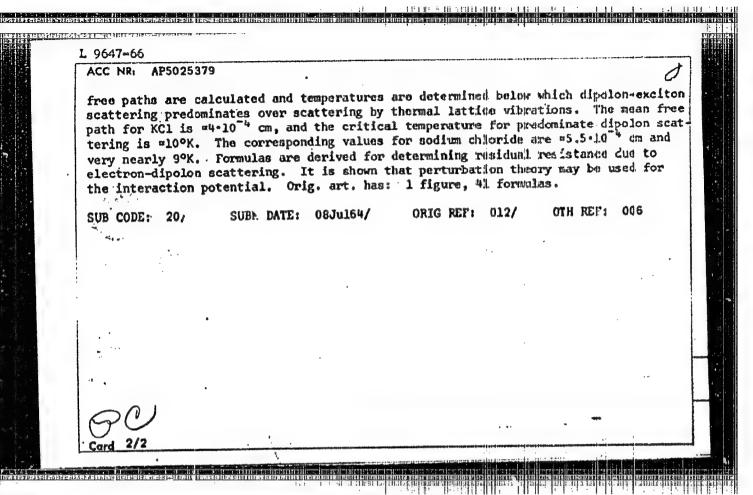
L 6450-50 EWT(m) DIAAF ACC NR: AP5025253 SOURCE CODE: UR/03/86/65/002/004/01/64/01/67	
W. C6	
AUTHOR: Izmaylov, S. V.; Shul'man, G. A. 44,55	86
ORG: <u>Ieningrad State Pedagogical Institute im. A. I. Gertseva (Leningradskiy</u> gosudarstvennyy pedagogicheskiy institut)	
TITLE: Filling of electron shells of compressed atoms in the statistical model	
SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ng y redaktsipu (Prilozheniye), v. 2, no. 4, 1965, 164-167	
TOPIC TAGS: nuclear shell model, electron shell, pressure effect, quantum number	
ABSTRACT: Starting from the simplified Sommerfeld condition the authors show that for a compressed atom the first appearance of s-, p-, d-, and f-electrons will be de-	
termined by the formula $Z_{I} = 1.26(1-\gamma)(I+\frac{1}{2})^{3}$	£ .
where I is the quantum number, γ is a correction term, and E is the atomic number of the element. The factor $(1-\gamma)$ will decrease with increasing pressure, and consequently, the atomic number Z of the element in which the electrons with given quantum number I first appear will also decrease. It is easy to determine the factor $(1-\gamma)$, number I first appear will also decrease. It is easy to determine the factor $(1-\gamma)$, meaning also the parameter A. It is also shown that formation of electronic groups in a compressed atom depends essentially on the pressure, that the number of the dand f-electrons increases appreciably in atoms with increasing pressure, and that g-	
Card 1/2	el el



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CIA-RDP86-00513R000619410005-5

9647-66 ENT[1]/ENT[m]/T/ENP(t)/ENP(h)/ENA(m)-2 LIP(n) JALAN/ F/AT ACC NR: AP5025379 SOURCE CODE: UR/0181/65/007/010/3008/3014 AUTHOR: Izmaylov, S. V.; Rozman, G. A. 44,55 ORG: Leningrad State Pedagogical Institute im. A. I. Gentsen (Leningradskiy gosudarstvennyy pedagogicheskiy institut) TITLE: Elastic scattering of excitons and electrons by moutral pair vacancies in alkali halide crystals 2 Fizika tverdogo tela, v. 7, no. 10, 1965, 3006-3014 SOURCE: 21,44,55 21,44,55 TOPIC TAGS: alkali halide, electron scattering, crystal theory, crystal lattice defect, crystal lattice vacancy ABSTRACT: The paper is a theoretical study of elastic smartening of relatively fast secondary electrons and non-polarized excitons by dipolous. Dipolous are defined as pair defects of three types: two oppositely charged vacancies at adjacent lattice sites; two oppositely charged interstitial ions separated by a distance of the order of a lattice constant; or a vacancy and a nearby oppositivity charged interstitial ion. To make the problem specific, the case of two adjacent oppositely charged vacancies is considered. The results are true for the second case, and with some simplification for the third case also. Exciton and electron scattering are considered separately. Numerical calculations are made for scattering in NaCl and KCl crystals. Hean. Card 1/2



to the first of the configuration in the section is the first of the first particular section in the section of the section is a section of the section of t EWT(1)/EWT(n)/EWP(t)/EWP(b)/EdA(h) JD _7238--66 ACC NR: AP5025905 SOURCE CODE: WR/0057/65/035/010/1889/1896 AUTHOR: Iznaylov, S.V.; Shul'man, G.A. ORG: Leningrad State Pedagogical Institute im. A.I.Gertsen (Leningradskiy gosudarstvennyy pedagogicheskiy institut) 44. 5 5 On the theory of the periodic system of the elements at high pressures. 1. TITLE: Zhurnal tekhnicheskoy fiziki, v. 35, no. 10, 1965, 1889-1896 SOURCE: TOPIC TAGS: atomic structure, high pressure, periodic system, Nemmi statishical ABSTRACT: The influence of pressure on the electronic structure of atoms is discussed with the aid of the statistical atomic model. The atomic electrons are assumed to be confined by the pressure to the interior of a sphere of finite madius and to be distributed according to the Lenz-Jensen formula. The Lenz-Jensen distribution is employed because it approximates the Fermi-Thomas distribution and is more tractable. The relation between the pressure and the radius of the atom is obtained from the expression of the Fermi-Thomas model for the electron kinetic energy, and the free parameter in the Lenz-Jensen distribution is determined from the condition that the total energy (for fixed radius) be minimum. It is found that increase of pressure tneds to cause electronic states of higher orbital angular momentum to become occu-Card 1/2 MIC4- 539.0

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ACC NR: AP6011382

SOURCE CODE: UR/0057/66/036/003/0405/0412 54

AUTHOR: Izmaylov, S.V.; Shulman, G.A.

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ORG: Leningrad State Pedagogical Institute im. a.I.Gortsen (Leningradskiy gosudarstvennyy pedagogicheskiy institut)

TITLE: On the theory of the periodic system of the elements at high pressures. 2

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 3, 1966, 405-412

TOPIC TAGS: periodic system, atomic structure, statistical theory, pressure effect

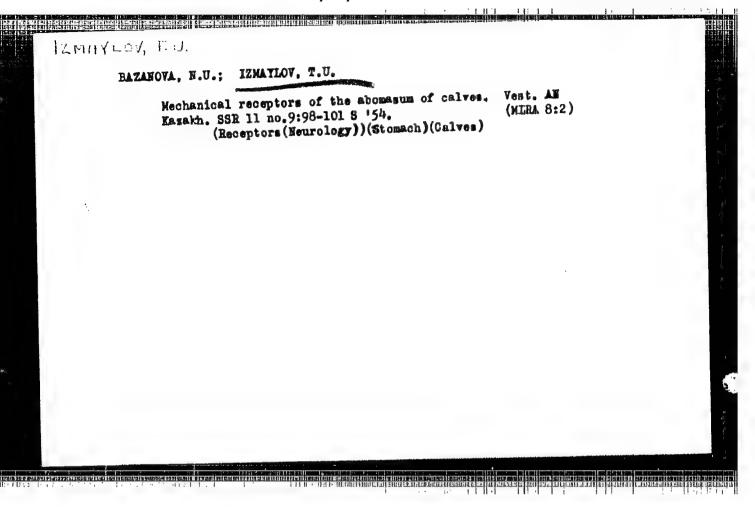
ABSTRACT: In an earlier paper (ZhTF, 35, 1889, 1965) the authors discussed the periodic system at high pressures on the basis of the Fermi-Thomas model and showed that the formation of electron shells in the atom, the first appearance of electrons with a given azimuthal quantum number, and the mean angular momentum of the electrons in the atom depend significantly on the pressure. In the present paper, which the authors characterize as "preliminary", those calculations are generalized, on the basis of the "generalized statistical model", to take into account the exchange and second order quantum corrections to the kinetic energy, as well as the correlation correction. The calculations were performed with the Lentz variational method as employed earlier by H.Jensen (Zs. Phys., 77, 722, 1932), with the expression A $\exp(-(\lambda r)^{1/\beta})$ for the electron density in the atom. Here A is a normalizing factor, λ is a variational

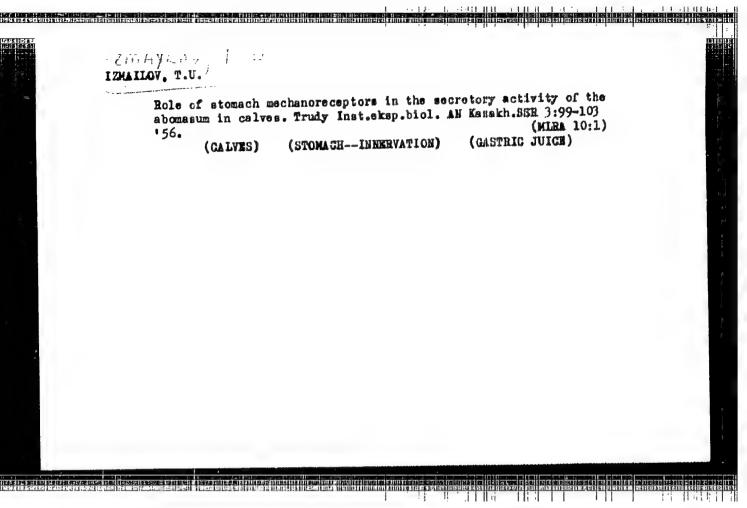
Card 1/3

UDC: 539,183,3

within the atom, particularly in view of the fact that the parameter β was not varied. The authors thank I.V.Shirmanova, V.T.Aleksandrov, and G.G.Gurbanov for programming

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I. 04828-67 EVT(1) LJP(c) ACC NR: AP6026969	SOURCE CODE: UR/0051/66/021/002/0178/0180
AUTHOR: Izmaylov, S. V.; Rozm	an, G. A.
ORG: none	
TITLE: Formation of an H'-cen	iter
	iya, v. 21, no. 2, 1966, 178-180
trapping	vacancy, crystal lattice defect, color center, electron
	ter which is a complex defect called the Hi-center and
consists of the neutral pair than F- and F'-conters. There	efore, the H'-conter should dissociate as a result of
ciable photoconductivity due	to the dissociation of it combined and data on it can be
obtained by studying polarize halide crystal is illuminated	d luminescence. It is known that when a colored alkali with light corresponding to the F-band (or white light) lorization takes place, and new bands appear in place of view, H'-centers may be responsible for the appearance
	UDC: 548.0:620.192
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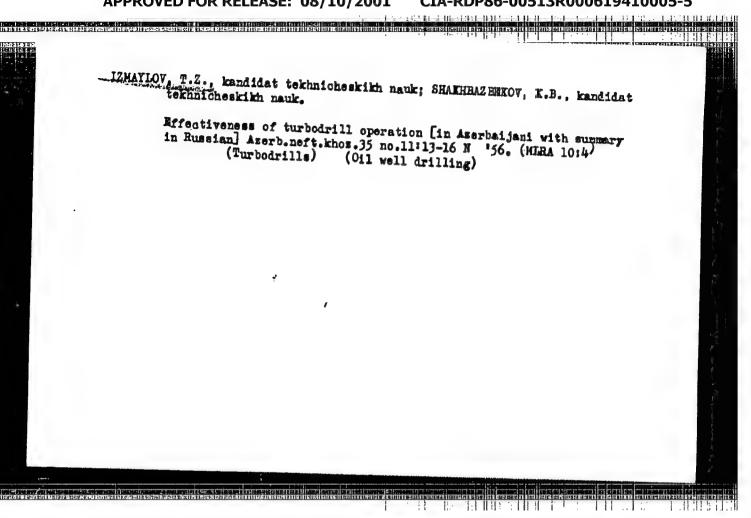
IZMAYLOV, T. Z. -

"Investigation of the Operating Conditions of Turbine Drilling in the 'Kaganovichneft' (Petroleum) Trust." Cand Tech Sci. Azerbaydzhan Industrial Inst imeni M. Azizbekov, 11 Oct 54. (BR, 5 Oct 54)

Survey of Scientific and Technical Dissertations Defended at UESR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 55

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Translation from: Referativnyy zhurnal, Geologiya, 1957-8-11762 p 243 (USSR)

AUTHOR:

Izmaylov, T. Z.

TITLE:

Effect of Mechanical Feeding on Operation of Turbine Drills (Vliyaniye mekhanizirovannoy podachi instrumenta na rezhim raboty turboburov)

ariammennen emittiennizamini atticeda

PERIODICAL:

Tr. Azerb. industr. in-ta, 1956, Nr 13, FF 75-80

ABSTRACT:

Studies of the T14M1-9-3/4" and T12M2-10" turbine drills have shown the optimum speeds for their operation, at which their power is at the maximum, to be 550 to 650 rpm and 450 to 550 rpm. The torque developed by the turbine drill is 100 to 300 kg/m. An increase in axial loading, especially in drilling soft rock, produces a decrease in the number of revolutions and sometimes causes the turbine drill to stop. This makes it necessary to raise the turbine drill and lower

Card 1/2

15-57-3-11703 Translation from: Referativnyy zhurnal, Geologiya, 1957, Er s, r 243 (USSR)

AUTHOR: Izmaylov, T. Z.

Effect of axial Loading and Number of RFM on Efficiency TITLE: of Turbine Drills (Vliyaniye osevoy nagruzki i caisla oborotov turbebura na effektivnost! rabeby soleta)

Tr. azerb. industr. in-ta, 1950, kr 13, 17 31-38 FERTODICAL:

ABSTRACT: Investigations have established that direct presortion exists between the rate of drilling and the number of rpm within certain limits. V. S. Fedorev points out that further increase in rpm beyond a certain critical value will produce a smaller increase in rate of

drilling than would correspond proportionally to the increase in rpm, and the efficiency of the drill will decrease. The critical number of rom Θ kr depends

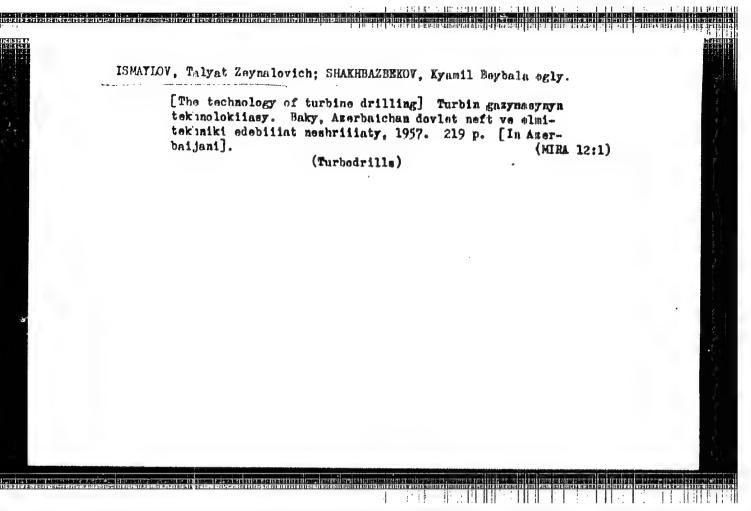
Card 1/3

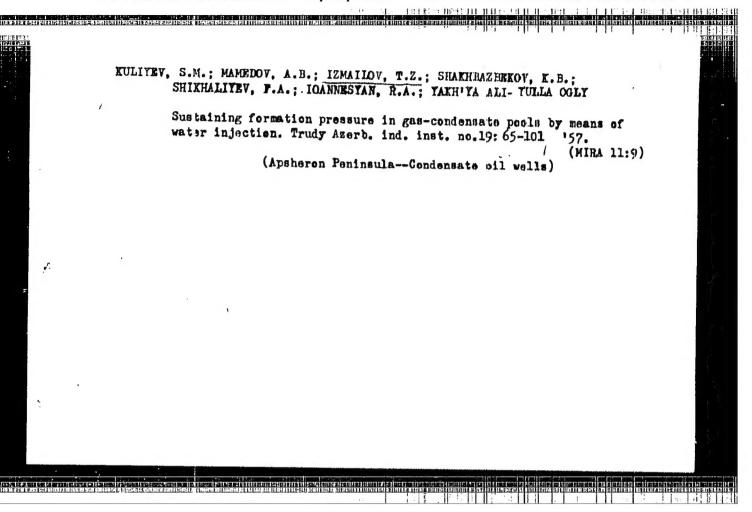
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15-57-3-11701

Effect of Axial Loading and Number of RIM (Cont.)

on the axial load on the drill, the resistance of the rock, and the construction of the drill. Okr increases with an increase in axial loading; it decreases with an increase in resistance of the rock; it decreases with an increase in the coefficient of slip of the drill. L. A. Shreyner has established, on the basis of experimental investigations, that the total rate of rock penetration, that is, the rate of drilling, up to the critical rom, increased in cirect proportion to the increase in rpm. It is also known that the wear on the drill increases with an increase in the rpm. These relationships are confirmed by actual drilling experience. Thus, for example, according to the former Azneft' (State Association of the Azerbaidzhan Fetroleum Industry), the mechanical rates in turbine and rotor drilling are almost equal; at the same time, the wear on the drill in turbine drilling is 1.5 to 2 times greater than with rotor drilling as a result of operation of turbine drills at rpm exceeding the critical. Investigations of N. N. Ivanov and K. F. Ponamorev show that the duration of action of the load affects the Card 2/3





IZMAYLOV, T.Z.; SHIKHALIYEV, F.A.

Calculating casings for extra deep wells. Izv. vys. ucheb. zav.;
neft'i gaz 5 no.6:29-33 '62. (MIRA 16:5)

1. Azerbaydzhanskiy institut nefti i khimii imeni M.Azizbekova.

(Oil well casing)

